

WINKLE

**MAGNETIC
LIFTING
DEVICES**



OUR MISSION

To engineer material handling solutions through the combined expertise of those who innovate and those who operate. By not just manufacturing, but also remanufacturing, we develop built-to-last solutions to support industries that demand safety and reliability.

Winkle is part of GRYB International, a group of companies that aim to create the ultimate heavy equipment attachment portfolio in the material handling industries.

GRYB INTL



WINKLE

SHEAREX

SERCO
LOADERS

e-Trak
Technology Solutions



DALKO
TECH

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WINKLE





ENGINEERED FOR SUCCESS

CIRCULAR SCRAP HANDLING MAGNET

DS SERIES

Utilize the full capacity of your crane, cut downtime and maximize the profitability of your application. Choose from the most diverse portfolio of scrap magnets in the industry.

STANDARD FEATURES

- Heavy-Duty Fabricated Steel Case
- High-Impact Resistant Manganese Steel Bottom Plate
- Grade 80 High Alloy Steel Chain Assembly
- Quenched & Tempered Steel Pins and Collars
- Ground-Wired, Easy Access Terminal Box
- Wear Resistant Hard-Faced Pole Shoes
- Aluminum Wound Coil
- Class “H” Insulations
- 230 Volt DC Operation
- 75% Continuous Duty-Cycle
- Moisture & Shock Resistant High-Dielectric Compound



RECYCLING



RAILROAD



DEMOLITION



IRON & STEEL





DO YOUR BEST WORK

CIRCULAR MILL-DUTY MAGNETS

CM SERIES

CM Series magnets are designed to withstand harsh environments and are available in a variety of sizes to fit your specific needs. Due to their sturdy construction, unmatched duty-cycles and superior lifting capability - these magnets are the right choice for almost any application.

STANDARD FEATURES

- Heavy-Duty Fabricated Case
- Watertight Construction
- Copper Wound Coil
- Deep & Extra-Deep Field Design
- 75% Continuous Duty-Cycle
- Class «H» Insulations
- Easy Access Terminal Box
- Grade 80 High Alloy Steel Chain Assembly
- High Impact Resistant Manganese Steel Bottom Plate
- 230 VDC Operation



SLAB HANDLING



STEEL PROCESSING



FOR THE TOUGHEST JOBS

COIL HANDLING MILL-DUTY MAGNETS CH SERIES

Achieve exceptional lifting performance with the CH series custom designed to handle both eye vertical and horizontal positions. Take advantage of these durable magnets with superior lift-to-weight ratios.

STANDARD FEATURES

- Copper Wound Coil
- Heavy-Duty Fabricated Case
- 75% Continuous Duty-Cycle
- Class "H" Insulation
- High Alloy Grade 80 Steel Chain Assemblies
- 230 Volt DC Operation







DO YOUR BEST WORK

BI-POLAR MILL-DUTY MAGNETS

BP SERIES

Utilized individually or in multiples, the BP Series magnets are available in a wide range of sizes and come equipped with custom-designed pole shoes and suspension systems to meet the needs of your specific application.

TYPICAL APPLICATIONS

- Bundles of Pipe
- Tube
- Rebar
- Bar Stock
- Plate
- Structural Shapes
- Castings
- Forgings
- Coil Strips



15,000

OptiGen 20 vV

WINKLE



OPTIMIZE YOUR APPLICATION

RECTANGULAR MILL-DUTY MAGNETS

RM SERIES

Our RM Series magnets are engineered and manufactured for usage in the handling of various metal shapes and structural products. These magnets have a deep magnetic field which allows holding through mill scale and other irregular surfaces.

TYPICAL APPLICATIONS

- Pipes
- Bundles
- Sheets
- Billets
- Plates
- Bars
- Structural





OPTIMIZE YOUR PRODUCTION

GRAPPLE MAGNETS

DSG SERIES

Our DSG Series grapple magnets allow the operator to combine the tines of a standard orange peel grapple with the capacity of a round lifting magnet. The user can employ the magnet to clean up an area, and use the grapple to increase the lifting capacity and hold scrap while de-energizing the magnet, thus saving on magnet wear and tear.



DROP BALL MAGNET DB SERIES

The Winkle "DB Series" magnets have revolutionized the slag reclamation industry for drop ball applications.



RECTANGULAR SCRAP HANDLING MAGNETS DSR SERIES

Achieve optimum scrap charging capabilities in your environment. "DSR" magnets lift large volumes of scrap and greatly increases load capacity.



12/24V BATTERY MAGNET BM SERIES

Winkle's 24-volt scrap electromagnets are a popular choice for the rail & scrap industry as they are specialized battery magnets designed specifically to meet industry requirements.



HYDRAULIC HANDLING MAGNET HYDMAG SERIES

Available in many sizes, the HYDMAG is completely independent. The generator is installed directly onto the magnet and once hoses are in, you are ready to go.



ROAD SWEEPER MAGNETS RS SERIES

The RS Series is a fast, efficient and practical solution to rid roadways of metal that cause costly tire and equipment damage. The RS can be used with all types of machines from fork lifts to trucks.



PERMANENT MAGNETIC SWEEPER AIB SERIES

The AIB series is equipped with an efficient stainless steel cleaning system and it can be used at a speed up to 18MPH. The standard sweeper is to be held by forks and a towing system is available as an option.





BATEMAN

**MAX
GEN**

9 KW

50LC



POWER ON

SELF-CONTAINED ENGINE-DRIVEN GENERATORS

BATEMAN continues to offer the scrap industry the best performing, most reliable generator on the market. All BATEMAN Self-Contained Diesel Engine-Driven Generator Kits are supplied with all cables and controls.

MOST RELIABLE
ON THE MARKET

CABLES & CONTROLS
INCLUDED

PERFECT MATCH
FOR MAGNETIZED ATTACHMENTS



BATEMAN

20kW HydGen

1500 psi EXCEEDS EN857 ZSC/100R16S



CHANGING THE GAME

HYDRAULIC GENERATORS

BATEMAN Hydraulic Drive Generator Kits are purpose built, machine specific, to allow for fast installation for excavator conversions, or other material handling scrap applications.

Generator output ratings of 9, 15, 20, and 30 kW make these units an ideal match for the WINKLE line off products.

PURPOSE BUILT
FOR YOUR MACHINE

FAST INSTALLATION
AND EXCAVATOR CONVERSIONS

PERFECT MATCH
FOR MAGNETIZED ATTACHMENTS

WINKLE

**TECHNICAL
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TECHNICAL SPECIFICATIONS

CIRCULAR SCRAP MAGNET ELSDA - Extra-Light Deep Field Aluminum

SIZE DIA.	WEIGHT LBS (KG)	AMPERAGE COLD	VOLTAGE DC	MINIMUM POWER REQ.	MINIMUM CABLE REQ.	LIFT DATA LBS (KG)		TURNINGS
						#1 HEAVY MELT	#2 HEAVY MELT	
30"	895 (406)	18	230	5 kW	#12	575 (261)	375 (170)	225 (102)
34"	1,050 (476)	22	230	5 kW	#12	700 (318)	450 (204)	275 (125)
40"	1,700 (771)	32	230	7.5 kW	#10	1,250 (567)	775 (352)	400 (181)
48"	2,500 (1,134)	44	230	10 kW	#8	1,925 (873)	1,275 (578)	625 (283)
58"	3,850 (1,746)	65	230	15 kW	#8	3,025 (1,372)	1,975 (896)	950 (431)
68"	5,800 (2,631)	87	230	20 kW	#6	4,425 (2,007)	2,875 (1,304)	1,500 (680)
72"	7,500 (3,402)	102	230	25 kW	#4	5,550 (2,517)	3,850 (1,746)	1,775 (805)

CIRCULAR SCRAP MAGNET LDSA - Light Deep Field Aluminum

SIZE DIA.	WEIGHT LBS (KG)	AMPERAGE COLD	VOLTAGE DC	MINIMUM POWER REQ.	MINIMUM CABLE REQ.	LIFT DATA LBS (KG)		TURNINGS
						#1 HEAVY MELT	#2 HEAVY MELT	
30"	1,025 (465)	20	230	5 kW	#12	625 (283)	425 (193)	250 (113)
34"	1,275 (578)	23	230	5 kW	#12	775 (352)	500 (227)	300 (136)
36"	1,475 (669)	22	230	5 kW	#12	850 (386)	525 (238)	350 (159)
40"	1,850 (839)	34	230	7.5 kW	#10	1,375 (624)	800 (363)	425 (193)
48"	2,900 (1,315)	45	230	10 kW	#8	2,075 (941)	1,300 (590)	650 (295)
53"	3,650 (1,656)	53	230	13 kW	#8	2,475 (1,123)	1,625 (737)	800 (363)
58"	3,950 (1,792)	66	230	15 kW	#8	3,150 (1,429)	2,125 (964)	1,025 (465)
63"	5,375 (2,438)	75	230	17 kW	#6	3,975 (1,803)	2,650 (1,202)	1,300 (590)
68"	6,000 (2,722)	88	230	20 kW	#6	4,650 (2,109)	2,975 (1,349)	1,525 (692)
72"	7,750 (3,515)	108	230	25 kW	#4	5,625 (2,551)	3,975 (1,803)	1,850 (839)

TECHNICAL SPECIFICATIONS

CIRCULAR SCRAP MAGNET

DSA - Deep Field Aluminum

SIZE DIA.	WEIGHT LBS (KG)	AMPERAGE COLD	VOLTAGE DC	MINIMUM POWER REQ.	MINIMUM CABLE REQ.	LIFT DATA LBS (KG)		
						#1 HEAVY MELT	#2 HEAVY MELT	TURNINGS
34"	1,500 (680)	24	230	5 kW	#12	850 (386)	525 (238)	350 (159)
36"	1,625 (737)	25	230	7.5 kW	#12	925 (420)	600 (272)	375 (170)
40"	2,075 (941)	36	230	9 kW	#10	1,500 (680)	925 (420)	450 (204)
48"	3,100 (1,406)	47	230	10 kW	#8	2,200 (998)	1,350 (612)	700 (318)
53"	3,825 (1,735)	55	230	13 kW	#8	2,650 (1,202)	1,775 (805)	825 (374)
58"	4,250 (1,928)	67	230	15 kW	#8	3,350 (1,520)	2,250 (1,021)	1,125 (510)
63"	5,625 (2,551)	78	230	17 kW	#6	4,250 (1,928)	2,725 (1,236)	1,375 (624)
68"	6,400 (2,903)	90	230	20 kW	#6	4,775 (2,166)	3,125 (1,417)	1,575 (714)
72"	8,450 (3,833)	111	230	25 kW	#4	5,750 (2,608)	4,125 (1,871)	1,900 (862)
78"	10,200 (4,627)	131	230	30 kW	#2	6,950 (3,152)	4,475 (2,030)	2,250 (1,021)
84"	12,950 (5,874)	165	230	40 kW	#2	7,950 (3,606)	5,375 (2,438)	2,700 (1,225)
88"	14,800 (6,713)	179	230	40 kW	#1	8,975 (4,071)	6,100 (2,767)	3,150 (1,429)
93"	16,500 (7,484)	212	230	45 kW	1/0	10,600 (4,808)	7,925 (3,595)	3,975 (1,803)
98"	20,675 (9,378)	237	230	55 kW	2/0	12,225 (5,545)	9,750 (4,423)	4,800 (2,177)

CIRCULAR SCRAP MAGNET

EDSA - Extra Deep Field Aluminum

SIZE DIA.	WEIGHT LBS (KG)	AMPERAGE COLD	VOLTAGE DC	MINIMUM POWER REQ.	MINIMUM CABLE REQ.	LIFT DATA LBS (KG)		
						#1 HEAVY MELT	#2 HEAVY MELT	TURNINGS
34"	1,700 (771)	25	230	7.5 kW	#12	925 (420)	575 (261)	375 (170)
36"	2,025 (919)	29	230	7.5 kW	#12	1,050 (476)	700 (318)	425 (193)
40"	2,300 (1,043)	38	230	9 kW	#10	1,650 (748)	1,050 (476)	475 (215)
48"	3,300 (1,497)	48	230	13 kW	#8	2,350 (1,066)	1,450 (658)	750 (340)
58"	4,700 (2,132)	69	230	15 kW	#8	3,675 (1,667)	2,375 (1,077)	1,200 (544)
68"	6,825 (3,096)	94	230	20 kW	#6	4,925 (2,234)	3,300 (1,497)	1,675 (760)
72"	8,600 (3,901)	114	230	25 kW	#4	5,900 (2,676)	4,200 (1,905)	1,950 (885)
78"	10,750 (4,876)	133	230	30 kW	#2	7,150 (3,243)	4,700 (2,132)	2,325 (1,055)
84"	13,650 (6,192)	169	230	40 kW	#2	8,225 (3,731)	5,625 (2,551)	2,825 (1,281)
88"	15,175 (6,883)	188	230	40 kW	#1	9,325 (4,230)	6,325 (2,869)	3,275 (1,486)
93"	17,450 (7,915)	219	230	55 kW	1/0	10,950 (4,967)	8,350 (3,787)	4,100 (1,860)
98"	21,375 (9,695)	246	230	55 kW	2/0	12,575 (5,704)	10,375 (4,706)	4,925 (2,234)

TECHNICAL SPECIFICATIONS

CIRCULAR SCRAP MAGNET

DSA-DV - Deep Field Aluminum - Dual Voltage

SIZE DIA.	WEIGHT LBS (KG)	AMPERAGE COLD	VOLTAGE DC	MINIMUM POWER REQ.	MINIMUM CABLE REQ.	LIFT DATA LBS (KG)		
						#1 HEAVY MELT	#2 HEAVY MELT	TURNINGS
84"	12,950 (5,874)	207/162	230/180	45 kW	1/0	8,350 (3,787)	5,650 (2,563)	2,850 (1,293)
88"	14,800 (6,713)	235/184	230/180	55 kW	2/0	9,450 (4,286)	6,350 (2,880)	3,300 (1,497)
93"	16,500 (7,484)	281/220	230/180	65 kW	3/0	11,100 (5,035)	8,375 (3,799)	4,125 (1,871)
98"	20,675 (9,378)	322/252	230/180	70 kW	4/0	12,750 (5,783)	10,400 (4,717)	4,950 (2,245)

CIRCULAR SCRAP MAGNET

EDSA-DV - Extra Deep Field Aluminum - Dual Voltage

SIZE DIA.	WEIGHT LBS (KG)	AMPERAGE COLD	VOLTAGE DC	MINIMUM POWER REQ.	MINIMUM CABLE REQ.	LIFT DATA LBS (KG)		
						#1 HEAVY MELT	#2 HEAVY MELT	TURNINGS
84"	13,650 (6,192)	212/165	230/180	45 kW	1/0	8,625 (3,912)	5,875 (2,665)	2,975 (1,349)
88"	15,175 (6,883)	245/191	230/180	55 kW	2/0	9,825 (4,457)	6,575 (2,982)	3,450 (1,565)
93"	17,450 (7,915)	297/233	230/180	65 kW	4/0	11,475 (5,205)	8,800 (3,992)	4,325 (1,962)
98"	21,375 (9,695)	345/270	230/180	75 kW	250 MCM	13,125 (5,953)	11,025 (5,001)	5,200 (2,359)

HYDRAULIC HANDLING MAGNET

HYDMAG SERIES

MODEL	DIA. IN	CURRENT AMPS	VOLTAGE	GENERATOR POWER	WEIGHT LBS	HMS1	HMS2	TURNINGS
HYDMAG-PG36	36	22	230	9	1,850	725	475	250
HYDMAG-PG40	40	33	230	9	2,300	900	600	350
HYDMAG-PG48	48	38	230	9	3,615	1,750	1,200	600
HYDMAG-PG54	54	55	230	15	4,200	2,300	1,550	700
HYDMAG-XG60	60	61	230	15	6,800	3,400	2,100	1,020
HYDMAG-XG66	55	80	230	20	7,800	4,500	3,000	1,350

TECHNICAL SPECIFICATIONS

12/24V BATTERY MAGNET BM SERIES

MODEL	DIAMETER IN	CURRENT AMPS	VOLTAGE VDC	WEIGHT LBS	LIFTING CAPACITY HMS1 LBS	DUTY CYCLE %
BM28A	28	85/42	12 or 24	950	Up to 400	75
BM32A	32	85/42	12 or 24	1,300	Up to 600	75
BM36A	36	40/80	24	1,900	Up to 750	75
BM40A	40	40/80	24	2,415	Up to 900	75
BM48A	48	50/100	24	3,375	Up to 1,100	75

SELF-CONTAINED ENGINE-DRIVEN GENERATORS

	9KW MAGGEN	9KW MAGGEN	15KW MAGGEN	20KW MAGGEN	30KWV MAGGEN
Generator Output	9 kW	9 kW	15 kW	20 kW	30 kW
Length IN (MM)	41 (1,041)	49 (1,245)	49 (1,245)	56 (1,422)	67 (1,702)
Width N (MM)	23 (584)	23 (584)	23 (584)	28 (711)	32 (813)
Height IN (MM)	32 (813)	35 (889)	35 (889)	42 (1,067)	42 (1,067)
Controller	100% Duty Cycle Electronic	100% Duty Cycle Electronic	100% Duty Cycle Electronic	100% Duty Cycle Electronic	100% Duty Cycle Electronic
Oper. Cond.	Air Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled
Max. RPM	3,600	3,000	3,000	3,000	2,500
Weight LB (KG)	650 (295)	790 (358)	800 (363)	950 (431)	1,800 (816)
Fuel Type	Gas	Diesel	Diesel	Diesel	Diesel

HYDRAULIC GENERATORS

	9KW HYDGEN	15KW HYDGEN	20KW HYDGEN	30KW HYDGEN
Generator Output	9 kW	15 kW	20 kW	30 kW
Width IN (MM)	15 (381)	15 (381)	16 (406)	17 (432)
Length IN (MM)	30 (762)	31 (787)	36 (914)	37 (940)
Height IN (MM)	18 (457)	18 (457)	21 (533)	23 (584)
No. of Poles	4	4	4	4
Magnet Size IN (MM)	24 - 40 (610 - 1,016)	40 - 57 (1,016 - 1,448)	57 - 67 (1,016 - 1,702)	60 - 78 (1,524 - 1,981)
Weight LB (KG)	210 (95)	220 (100)	250 (113)	350 (159)

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